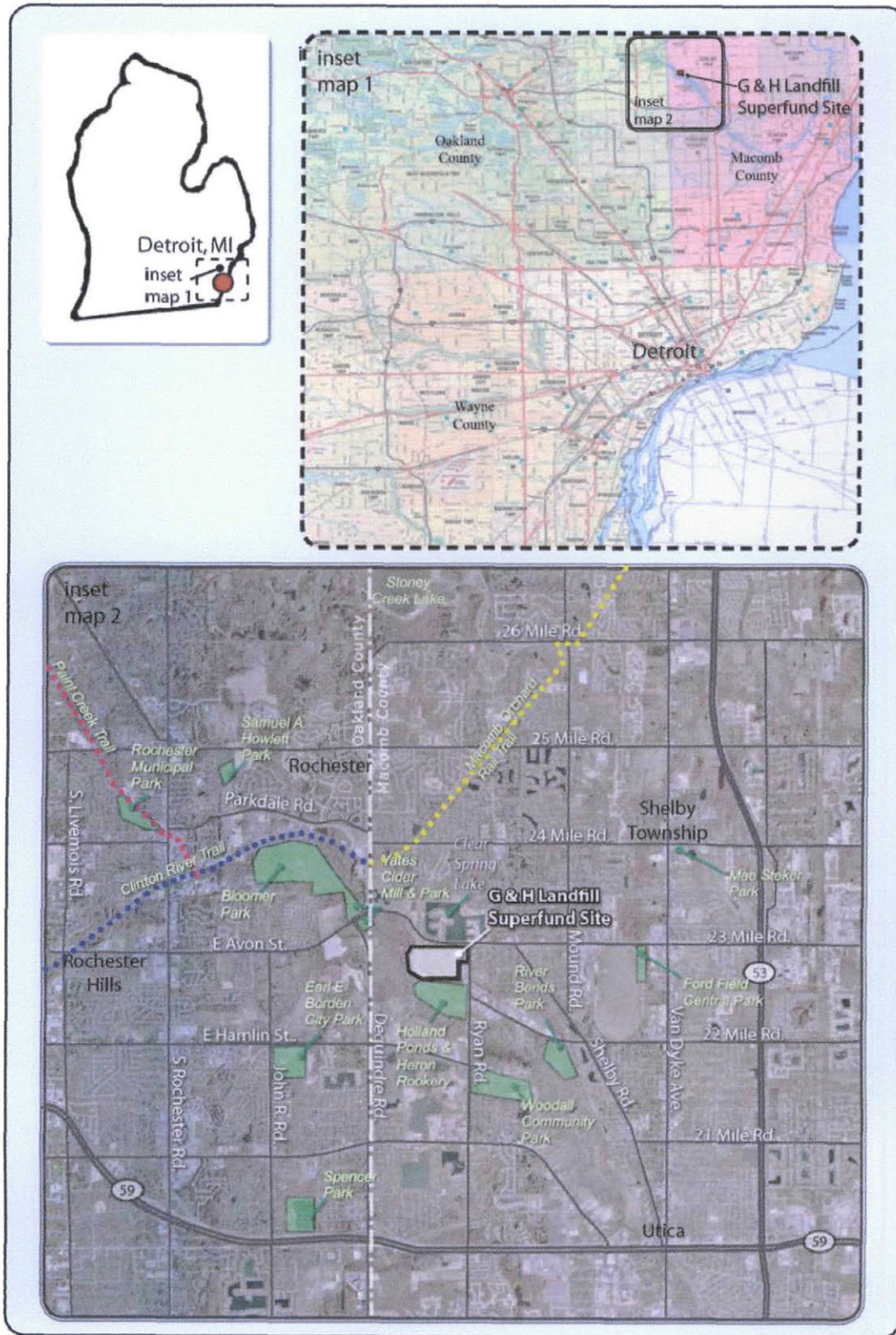
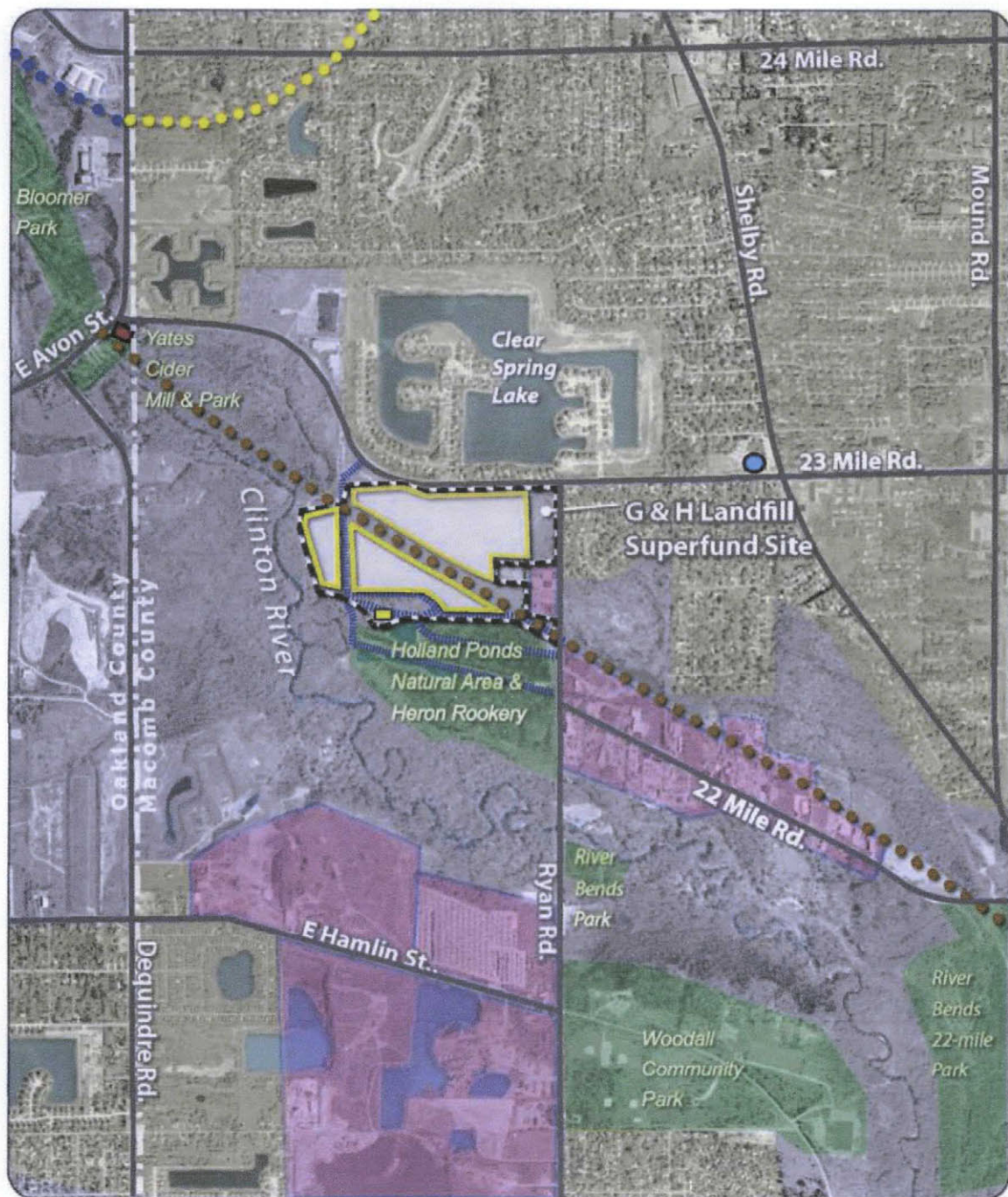


ATTACHMENTS












Attachment 1 Site Map

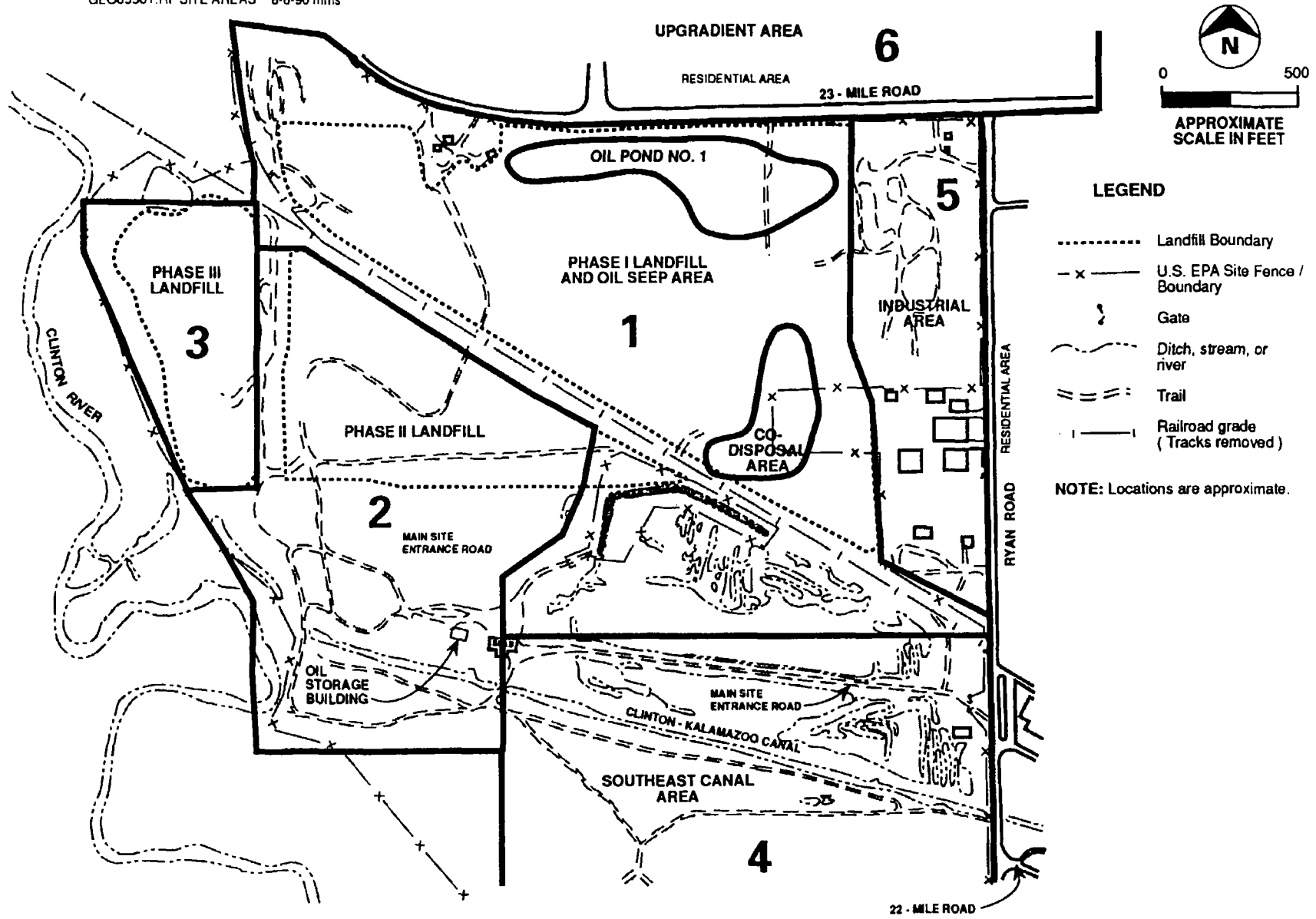


Attachment 2 Map of G & H Landfill Superfund Site and Surroundings



Key

	G&H Landfill Boundary Line		Rail Line (not in use)		Residential Areas
	G&H Landfill Containment Cells (phases I-III)		Gravel Road		Industrial Land Uses
	G&H Landfill Water Treatment Facility		Clinton River Trail		Parks and Recreation
			Macomb Orchard Trail		Elementary School



Attachment 3. Site Areas

Analyte Name	Well ID	Units*	Trend Test (60.0% Confidence)		Compare-to-Standard Test (80.0% Confidence)			Compare-to-Baseline Test (80.0% Confidence)	
			Result	Slope Estimate (Units*/Yr)	Result	UCL (Units*)	Standard (Units*)	Result	UPL (Units*)
ARSENIC	SW-102	ug/l	No Trend	0#	Exceedance	16.31	0.02	Better	13
ARSENIC	SW-103	ug/l	No Trend	0#	Exceedance	11.99	0.02	Better	10
ARSENIC	SW-104	ug/l	No Trend	0#	Exceedance	10.63	0.02	No Change	10
ARSENIC	SW-105	ug/l	No Trend	-0.109#	Exceedance	11.81	0.02	No Change	11.32
ARSENIC	SW-106	ug/l	No Trend	0#	Exceedance	17.9	0.02	No Change	10.76
ARSENIC	SW-107	ug/l	No Trend	0#	Exceedance	32.71	0.02	NR	
BENZENE	GH-29B	ug/l	No Trend	0#	Exceedance	8.167	1	NR	
BENZENE	GH-33A	ug/l	NR	#	Exceedance	1.072	1	NR	
BENZENE	GH-50	ug/l	No Trend	0#	Exceedance	3.235	1	Better	3.508
BENZENE	GH-51	ug/l	No Trend	0#	Exceedance	3.583	1	No Change	4.359
BENZENE	GH-53	ug/l	Downward	-0.1348#	Exceedance	1.902	1	No Change	4.233
BENZENE	GH-55	ug/l	Downward	-0.2942#	Exceedance	1.869	1	Better	9.153
BENZENE	GH-57	ug/l	No Trend	0.05642#	Exceedance	2.371	1	No Change	4.463
BENZENE	GH-59	ug/l	No Trend	0#	Exceedance	8.167	1	No Change	0.5
BENZENE	GH-66	ug/l	Downward	-0.1316#	Exceedance	5.65	1	Better	10.41
BENZENE	GH-67	ug/l	Downward	-0.08295#	Exceedance	6.129	1	Better	9.721
BENZENE	GH-68	ug/l	Downward	-0.2474#	Exceedance	2.645	1	Better	9.786
BENZENE	GH-69	ug/l	No Trend	0#	Exceedance	4.997	1	No Change	6.007
BENZENE	GH-78	ug/l	No Trend	0.8213#	Exceedance	34.77	1	NR	
BENZENE	GH-79	ug/l	Downward	-0.4491#	Exceedance	16.75	1	Better	208.9
BENZENE	GH-81	ug/l	No Trend	-0.06757#	Exceedance	2.586	1	Better	8.798
BENZENE	GW-1	ug/l	No Trend	0.1398#	Exceedance	2.459	1	No Change	2
BENZENE	GW-11	ug/l	No Trend	0#	Exceedance	1.242	1	No Change	0.5
CIS-1,2- DICHLOROETHYLENE	GH-43B	ug/l	No Trend	0#	Exceedance	9.136	1	No Change	0.5
CIS-1,2- DICHLOROETHYLENE	GH-51	ug/l	Downward	-0.283#	Exceedance	1.539	1	Better	12.29
LEAD	GH-1A	ug/l	No Trend	0.0111#	Exceedance	17.94	5	No Change	21.54
LEAD	GH-1B	ug/l	No Trend	0#	Exceedance	29.31	5	Worse	16.33
LEAD	GH-2A	ug/l	No Trend	0#	Exceedance	29.88	5	Worse	7.894
LEAD	GH-2B	ug/l	Upward	0.1829#	Exceedance	14.81	5	Worse	12.94
LEAD	GH-5A	ug/l	No Trend	0.08558#	Exceedance	31.94	5	No Change	123.9
LEAD	GH-8A	ug/l	No Trend	0.1182#	Exceedance	25.8	5	No Change	67.34
LEAD	SW-102	ug/l	No Trend	0.2165#	Exceedance	8.333	5	No Change	6.088
TETRACHLOROETHYL ENE(PCE)	GW-8	ug/l	No Trend	0#	Exceedance	1.192	1	No Change	0.5
TRICHLOROETHYLEN E (TCE)	GH-29B	ug/l	No Trend	0#	Exceedance	6.683	3	NR	
TRICHLOROETHYLEN E (TCE)	GW-8	ug/l	No Trend	0#	Exceedance	3.814	3	No Change	0.5
VINYL CHLORIDE	GH-19A	ug/l	No Trend	0#	Exceedance	1.223	1	NR	
VINYL CHLORIDE	GH-43B	ug/l	Downward	-0.1066#	Exceedance	19.47	1	Better	29.15

means trend coefficient of log-transformed data. Log(2) times reciprocal is doubling(+)/halving(-) time.

Statistical Note: ND surrogate = 0.5 X Median of Nondetects' PQLs.

Results created on 09-May-2006 .

Attachment 4. Summary of Groundwater Sampling Data

Analyte Name	Well ID	Units*	Trend Test (60.0% Confidence)		Compare-to-Standard Test (80.0% Confidence)			Compare-to-Baseline Test (80.0% Confidence)	
			Result	Slope Estimate (Units*/Yr)	Result	UCL (Units*)	Standard (Units*)	Result	UPL (Units*)
ARSENIC	BW-2A	ug/l	NR	#	Exceedance	11.56	0.02	NR	
ARSENIC	BW-2B	ug/l	NR	#	Exceedance	4.498	0.02	NR	
ARSENIC	GH-15A	ug/l	No Trend	-0.1744#	Exceedance	8.786	0.02	NR	
ARSENIC	GH-15B	ug/l	Downward	-0.2289#	Exceedance	8.806	0.02	NR	
ARSENIC	GH-16A	ug/l	No Trend	-0.1297#	Exceedance	8.945	0.02	NR	
ARSENIC	GH-1A	ug/l	No Trend	-0.03814#	Exceedance	21.63	0.02	No Change	61.43
ARSENIC	GH-1B	ug/l	No Trend	0#	Exceedance	9.961	0.02	No Change	10
ARSENIC	GH-20B	ug/l	No Trend	-0.04721#	Exceedance	9.471	0.02	NR	
ARSENIC	GH-22A	ug/l	No Trend	0#	Exceedance	9.984	0.02	No Change	10
ARSENIC	GH-25A	ug/l	No Trend	-0.1469#	Exceedance	64.84	0.02	NR	
ARSENIC	GH-26A	ug/l	Downward	-0.1885#	Exceedance	8.81	0.02	NR	
ARSENIC	GH-29A	ug/l	Downward	-0.2308#	Exceedance	8.873	0.02	NR	
ARSENIC	GH-29B	ug/l	No Trend	0#	Exceedance	9.951	0.02	NR	
ARSENIC	GH-2A	ug/l	No Trend	0#	Exceedance	14	0.02	No Change	10
ARSENIC	GH-2B	ug/l	Upward	0.1689#	Exceedance	42.51	0.02	No Change	37.98
ARSENIC	GH-33A	ug/l	NR	#	Exceedance	48.2	0.02	NR	
ARSENIC	GH-33B	ug/l	Downward	-0.3211#	Exceedance	30.13	0.02	NR	
ARSENIC	GH-34A	ug/l	Downward	-0.07726#	Exceedance	31.73	0.02	No Change	44.68
ARSENIC	GH-34B	ug/l	No Trend	0#	Exceedance	10.14	0.02	No Change	20.7
ARSENIC	GH-36A	ug/l	No Trend	0#	Exceedance	9.952	0.02	NR	
ARSENIC	GH-36B	ug/l	No Trend	0#	Exceedance	10.99	0.02	NR	
ARSENIC	GH-3A	ug/l	No Trend	-0.01223#	Exceedance	61.07	0.02	Worse	51.15
ARSENIC	GH-3B	ug/l	Downward	-0.1033#	Exceedance	32.14	0.02	No Change	96.6
ARSENIC	GH-43A	ug/l	No Trend	0#	Exceedance	8.396	0.02	No Change	10
ARSENIC	GH-43B	ug/l	No Trend	0#	Exceedance	18.9	0.02	No Change	10
ARSENIC	GH-44A	ug/l	No Trend	-0.0795#	Exceedance	51.33	0.02	No Change	112.8
ARSENIC	GH-45A	ug/l	No Trend	0#	Exceedance	13.76	0.02	No Change	10
ARSENIC	GH-47B	ug/l	No Trend	-0.1965#	Exceedance	8.643	0.02	NR	
ARSENIC	GH-4A	ug/l	Upward	2.346#	Exceedance	23.42	0.02	NR	
ARSENIC	GH-4B	ug/l	No Trend	0#	Exceedance	9.057	0.02	No Change	10
ARSENIC	GH-50	ug/l	No Trend	-0.02746#	Exceedance	69.41	0.02	Better	98.32
ARSENIC	GH-50A	ug/l	No Trend	0.02664#	Exceedance	41.05	0.02	Worse	21.1
ARSENIC	GH-50B	ug/l	No Trend	0#	Exceedance	10.76	0.02	Better	20.5
ARSENIC	GH-51	ug/l	No Trend	0.04833#	Exceedance	108.4	0.02	Worse	107.8
ARSENIC	GH-53	ug/l	Downward	-0.09697#	Exceedance	68.62	0.02	No Change	89.3
ARSENIC	GH-55	ug/l	Downward	-0.05987#	Exceedance	55.63	0.02	Better	83.72
ARSENIC	GH-57	ug/l	No Trend	0.03697#	Exceedance	55.98	0.02	No Change	57.3
ARSENIC	GH-59	ug/l	Upward	0.1228#	Exceedance	116	0.02	No Change	202.3
ARSENIC	GH-66	ug/l	Downward	-0.09015#	Exceedance	69.53	0.02	Better	116
ARSENIC	GH-67	ug/l	Downward	-0.05595#	Exceedance	77.99	0.02	No Change	125.1
ARSENIC	GH-68	ug/l	Downward	-0.1189#	Exceedance	66.15	0.02	No Change	93.4
ARSENIC	GH-69	ug/l	Downward	-0.1711#	Exceedance	53.99	0.02	Better	124.6
ARSENIC	GH-6A	ug/l	No Trend	0#	Exceedance	8.164	0.02	No Change	10
ARSENIC	GH-6B	ug/l	Downward	-0.2941#	Exceedance	13.67	0.02	Better	85.92
ARSENIC	GH-78	ug/l	Upward	0.5481#	Exceedance	46.89	0.02	NR	
ARSENIC	GH-79	ug/l	Downward	-0.09574#	Exceedance	39.21	0.02	Better	67.14
ARSENIC	GH-7A	ug/l	Upward	0.4074#	Exceedance	72.9	0.02	Worse	49.24
ARSENIC	GH-81	ug/l	Downward	-0.09394#	Exceedance	32.3	0.02	Better	65.69
ARSENIC	GH-83	ug/l	Downward	-0.05404#	Exceedance	105.3	0.02	Better	163.5
ARSENIC	GH-8B	ug/l	No Trend	0#	Exceedance	9.95	0.02	No Change	10
ARSENIC	GH-9A	ug/l	Downward	-0.08515#	Exceedance	32.4	0.02	No Change	93.33
ARSENIC	GH-9B	ug/l	No Trend	-0.008832#	Exceedance	70.6	0.02	Worse	78.77
ARSENIC	GW-1	ug/l	No Trend	0#	Exceedance	35.65	0.02	No Change	31.51
ARSENIC	GW-10	ug/l	No Trend	-0.07037#	Exceedance	8.744	0.02	Better	22
ARSENIC	GW-11	ug/l	No Trend	0#	Exceedance	5.649	0.02	No Change	10
ARSENIC	SW-101	ug/l	No Trend	0#	Exceedance	19.73	0.02	NR	

Attachment 5

Federal ARARs

The major ARARs that will be addressed and met by the selected remedy and whether the ARARs are listed as follows:

Executive Order 11988 and 11990; 40 CFR 6, Subpart A which requires that remedial actions must avoid adverse affects to floodplain or wetlands and evaluate potential impacts to these areas.

The Clean Air Act and 40 CFR 50 and 52 which require that select types and quantities of air emissions be in compliance with regional air pollution control programs; approved State Implementation Plans and other appropriate federal air criteria.

40 CFR 141 which requires that ground water used as drinking water meet maximum contaminant levels (MCLs) for pollutants of concern.

40 CFR 144 and 146 well plugging and abandonment and other requirements for the injection of treated ground water under the Underground Injection Control Program.

40 CFR 268 Land Disposal Restrictions for the handling, treatment, and placement of hazardous wastes.

49 CFR 107 requirements for transporting hazardous materials off-site.

40 CFR 761 TSCA regulations for the treatment, storage, and handling of PCBs.

Attachment 6

State ARARs

Act 60 of 1976 (PCB Compounds) which prohibits the disposal of waste containing a concentration equal or greater than 100 ppm of PCBs.

Act 64 of 1979 (The Hazardous Waste Management Act) which regulates the treatment, transport and disposal of hazardous wastes from site restoration.

Act 98 of 1913 (The Waterworks and Sewerage Systems Act) which are rules for construction and operation of sewerage systems, as applicable for discharge of ground water via new sewer connection and certification of the operator.

Act 127 of 1970 (The Michigan Environmental Protection Act) which prohibits any action which pollutes, impairs, or destroys the State's natural resources, due to any remedial action at the site.

Act 203 of 1979 (The Goemare-Anderson Wetland Protection Act) which regulates discharges to wetlands.

Act 245 of 1929 (The Water Resources Commission Act), as amended, which establishes surface water-quality standards to protect human health and the environment. The State administers the NPDES program under Part 21 of Michigan Act 245; therefore, Part 21 of Act 245 would be applicable to the direct discharge of treated water to the Clinton River or to a clean aquifer, to the indirect discharge through groundwater movement to a surface water body, or to discharge to a POTW.

Act 307 of 1990 (The Michigan Environmental Response Act) which provides for response activity to eliminate environmental contamination as sites containing hazardous substances and establishes cleanup standards.

Act 315 of 1969 (The Mineral Well Act) which establishes requirements for monitoring wells at the site.

Act 346 of 1972 (The Inland Taking and Streams Act), as amended, which regulates inland lakes and streams in the State.

Act 347 of 1972 (The Soil Erosion and Sedimentation control Act) which requires a soil erosion control measures at the site consistent with locally approved soil sedimentation and erosion control plans or rules.

Act 348 of 1965 (The Air Pollution Act) which requires air emissions to have 'non-injurious effects.'

Act 641 of 1978 (The Solid Waste Management Act) which establishes provisions governing the

regulation and management of solid waste.

Public Health Code Act 368 which establishes the procedures for well abandonment.








G&H Landfill
Macomb County, MI

MID980410823



Legend *

-  PRP Site Boundary
-  Estate of Leonard Forster
-  Deed Restrictions (1991) - Required IC
-  Auto Disposal Yard
-  Watermain Easements



* Please see Attachment 8 for Summary of Institutional Controls

EPA Disclaimer: Please be advised that areas depicted in the map have been estimated. The map does not create any rights enforceable by any party. EPA may refine or change this data and map at any time.

Created by Sarah Backhouse
U.S. EPA Region 5 on 9/22/06

Attachment 7

Attachment 8 DEED RESTRICTIONS ON G & H LANDFILL SITE

The Estate of Leonard Forster, owner in fee simple of the real estate described below, hereby imposes restrictions on the described real estate, also known as the G & H Industrial Landfill Site (hereafter "the Site") in Shelby Township, Macomb County, State of Michigan:

Beginning at Northeast corner Section 19, Town 3 North, Range 12 East, thence South 993.3 feet; thence South 89 degrees 55 minutes West 792 feet; thence South 220 feet; thence North 89 degrees 55 minutes East 396 feet; thence South 412.23 feet to R/W Michigan Central Railroad; thence Northwesterly along Railroad to South line of North 1/2 of North 1/2; thence West along 1/8 line to center line of Clinton River thence Northwesterly along River to North line of Section; thence East along Section line to point of beginning; except Michigan Central Railroad R/W. Subject to a 12 foot watermain easement, the center line description as, beginning at a point South 40 feet and West 30 feet from Northeast corner Section 19, thence West 1370 feet to the point ending, along with a 20 foot watermain easement, the center line description as beginning 1370 feet West of Northeast corner Section 19; thence South 34 feet to point of ending.

The restrictions enumerated herein also apply to the specific portion of the Site known as the Auto Disposal Yard, or Junkyard, bordered immediately to the northeast by the intersection of 23-Mile Road and Ryan in Shelby Township, Macomb County, Michigan. The legal description of the Auto Disposal Yard is:

Beginning at the N.E. Corner of Section 19, T.3N., R.12E., Shelby Township, Macomb County, Michigan; thence Due South 993.30 feet along the East line of Section 19 and the centerline of Ryan Road; thence S.89°55'00"W., 400.00 feet; thence Due North, 990.51 feet to a point on the North line of Section 19; thence N.89°31'01"E., 400.01 feet along the North line of Section 19 and the centerline of 23 Mile Road to the Point of Beginning and containing 9.11 acres.

The following restrictions are imposed upon the Site, its present and any future owners (including the heirs to the Estate) their authorized agents, assigns, employees or persons acting under their direction or control, for the purposes of protecting public health or welfare and the environment, preventing interference with the performance, and the maintenance, of any response actions selected and/or undertaken by the United States Environmental Protection Agency ("U. S. EPA"), or any party acting as agent for U.S. EPA, pursuant to Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"). Specifically, the following deed restrictions shall apply to the Site as provided for in paragraph nine (9) of the Consent Decree:

1. There shall be no consumptive or other use of the groundwater underlying the Site that could cause exposure of humans or animals to the groundwater underlying the Site;
2. There shall be no residential, commercial, or agricultural use of the Forster property considered part of the Site, including, but not limited to, any filling, grading, excavating,

building, drilling, mining, farming, or other development, or placing of waste material at any portion of the Site, including, but not limited to, the Auto Disposal Yard as described above, for any purpose, including residential, commercial, or agricultural purposes, except as approved in writing, by U.S. EPA;

3. There shall be no use of the Site that would allow the continued presence of humans at the Site, other than the presence necessary for implementation of any response actions selected and/or undertaken by U.S. EPA pursuant to Section 104 of CERCLA, including such response actions taken by other responsible parties under a judicial or administrative order. *A prohibited use of the Site includes, but is not limited to, recreational use;*

4. There shall be no installation, removal, construction or use of any buildings, wells, pipes, roads, ditches or any other structures or materials at the Site except as approved, in writing, by U.S. EPA, and in consultation with the State of Michigan;

5. There shall be no tampering with, or-removal of, the containment or monitoring systems that remain on the Site as a result of implementation of any response action by U.S. EPA, or any party acting as agent for U.S. EPA, and which is selected and/or undertaken by U.S. EPA pursuant to Section 104 of CERCLA; and

6. There shall be no use of, or activity at, the Site that may interfere with, damage, or otherwise impair the effectiveness of any response action (or any component thereof) selected and/or undertaken by U.S. EPA, or any party acting as agent for U.S. EPA, pursuant to Section 104 of CERCLA, except with the written approval of U.S. EPA, in consultation with the State of Michigan, and consistent with all statutory and regulatory requirements.

The obligation to implement and maintain the above restrictions shall run with the land and shall remain in effect until such time as U.S. EPA files with the Court a written certification stating:

1. The response action required at, under or adjacent to the Site by any Consent Decree or judicial or administrative order, entered pursuant to CERCLA, has been fully implemented;

2. No other response actions are planned for the Site; and

3. The above restrictions are no longer necessary to meet the purposes of this Decree.